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WATER SUPPLY OUTLOOK FOR OREGON

DEC 12 1978
U.S. DEPT. OF AGRICULTURE

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON DEPARTMENT OF WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAR. 1, 1978

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Mast af the usable water in western states originates as mountain snawfall. This snowfall accumulates during the winter and spring, several months befare the snaw melts and appears as streamflaw. Since the runoff fram precipitatian as snow is delayed, estimates of snowmelt runaff can be made well in advance of its occurrence. Streamflow forecasts published in this repart are based principally on measurement of the water equivalent af the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All farecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect an runaff. Early season farecasts are therefore subject to a greater change than those made an later dates.

The snaw caurse measurement is abtained by sampling snow depth and water equivalent at surveyed and marked lacatians in mountain areas. A tatal af abaut ten samples are taken at each location. The average af these are reported as snow depth and water equivalent. These measurements are repeated in the same lacatian near the same dates each year.

Snaw surveys are made manthly ar semi-manthly fram January 1 thraugh June 1 in mast states. There are abaut 1900 snaw caurses in Western United States and in the Columbia Basin in British Columbia. Networks of autamatic snaw water equivalent and related data sensing devices, alang with radio telemetry are expanding and will pravide a cantinuaus record of snaw water and ather parameters at key locations.

Detailed data an snaw caurse and soil moisture measurements are presented in state and lacal reparts. Other data an reservair starage, summaries of precipitation, current streamflaw, and sail maisture canditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data far the periad af record are published by the Soil Conservatian Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published abaut October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservatian Service publishes reparts following the principal snaw survey dates from January 1 through June 1 in cooperation with state water administratars, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Sail Canservation Service, West Technical Service Center, Raam 510, 511 N.W. Broadway, Partland, Oregon 97209.

Copies af state and local reports may alsa be abtained from state offices of the Sail Conservatian Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizana	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Calarado 80217
Idaho	Raom 345, 304 N. 8th. St., Baise, Idaho 83702
Montana	P.O. Bax 98, Bazeman, Mantana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregan 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Bax 2440, Casper, Wyaming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

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WATER SUPPLY OUTLOOK FOR OREGON

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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MARCH 8, 1978

Issued by

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In Cooperation with

OREGON
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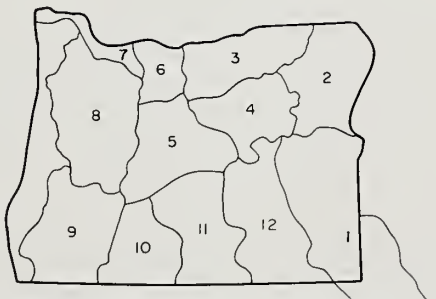
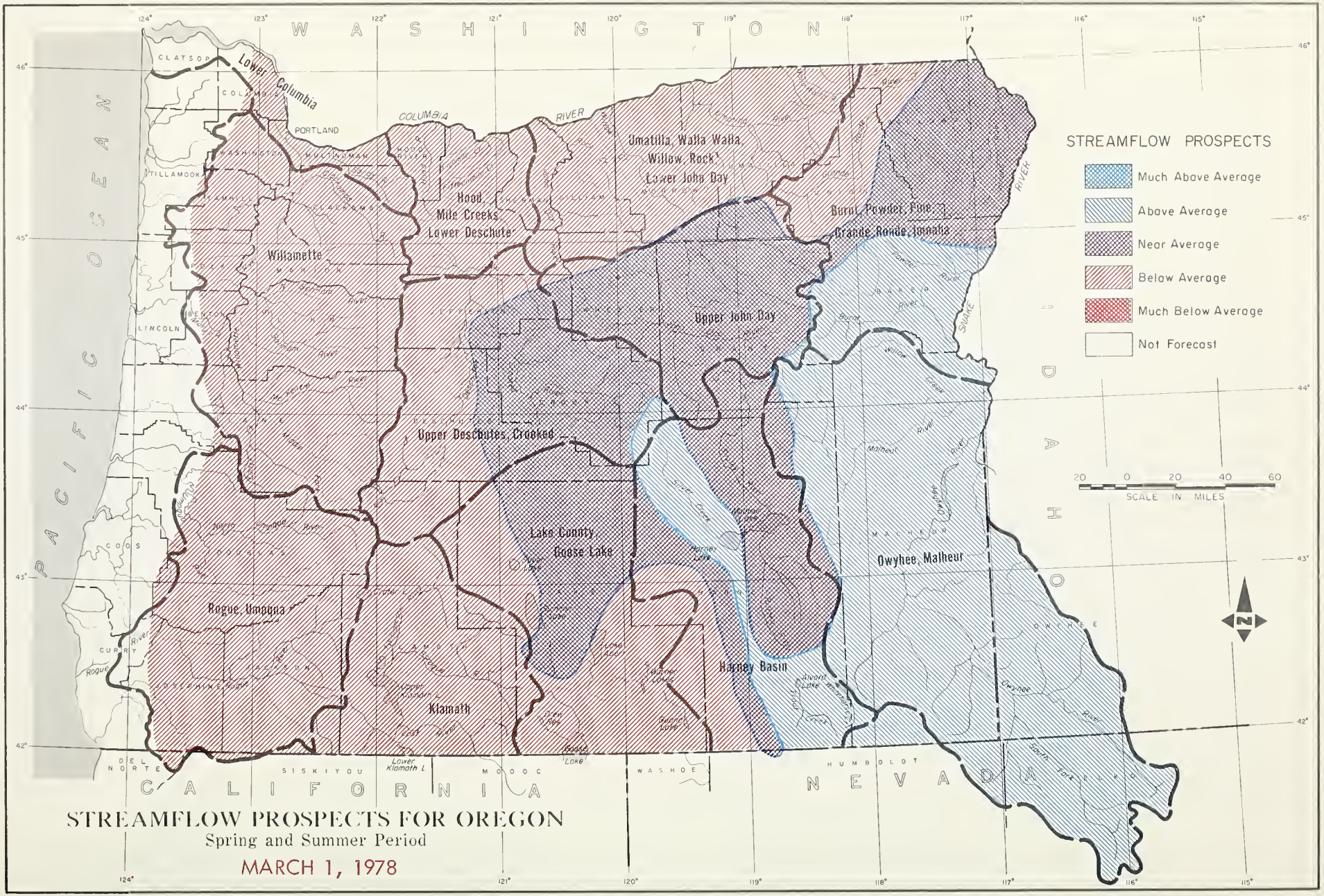


WATERSHED AREA LOCATIONS

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE



STREAMFLOW PROSPECTS FOR OREGON

Spring and Summer Period

MARCH 1, 1978

WATER SUPPLY OUTLOOK for OREGON

MARCH 1, 1978

Most Oregon water users will experience adequate water supplies this coming spring and summer. Water users dependent on direct diversion in the Willamette Valley, and in the counties along the Columbia River, may experience water shortages in July and August.

SNOW COVER

The Cascade snowpack continues to be poor in the Northern half and below average in the Southern half of the range. Warm rains and a high freezing level during December depleted the snow cover at that time and it has not recovered. These warm rains also melted the December snow cover in the Blue Mountains. Snow cover is best in Southeastern Oregon; where in Harney and Malheur counties, it varies from 120% to 165% of normal. Elsewhere, in the John Day, Crooked, Burnt, Powder and Wallowa drainages, the snowpack is near normal. Snowpack is below average in the Umatilla and Walla Walla watersheds.

PRECIPITATION

Normal precipitation was received in most of Oregon during February. Exceptions were: Malheur County, where precipitation was 170% of normal; the Hood River area, the Willamette Valley, and Lake County, where precipitation was 60 to 75% of average. Precipitation for the November-February winter period has been normal, or above normal, in all areas of the state with Eastern Oregon receiving the above normal amounts.

SOIL MOISTURE

Mountain soil moisture is good from the above average precipitation received this winter. This condition will be a positive factor to the runoff.

RESERVOIR STORAGE

Reservoir storage is below average but should supply adequate water this summer. Twentysix reservoirs were storing 1,742,500 acre feet of water on March 1. This is 83% of normal and 55% of capacity.

- continued on next page -

continued -

STREAMFLOW

Streamflow was near normal during February in Oregon except for the Southeastern part of the state, where it was below normal. This southeastern area also has the best snowpack. The lack of streamflow for the past four months, indicates the snowpack did not melt and run off, as it did in the Cascades.

Forecasts of spring and summer volume streamflow, for representative Oregon streams, are as follows:

Stream	Period	Forecast % of 1958-72 Average
Owyhee net Inflow	Apr.-Sept.	140
Malheur nr. Drewsey	Apr.-Sept.	108
Deschutes nr. Benham Falls	Apr.-Sept.	85
Grande Ronde nr. La Grande	Apr.-Sept.	89
Willamette, Md. Fk. nr. Oakridge	Apr.-Sept.	75
Upper Klamath Lake net Inflow	Apr.-Sept.	90
Rogue nr. Raygold	Apr.-Sept.	84
Silvies nr. Burns	Apr.-Sept.	100
John Day, Mid. Fk. nr. Ritter	Apr.-Sept.	90

This report contains data furnished by the Oregon Department of Water Resources, U.S. Geological Survey, NOAA National Weather Service and other cooperators.

WATER SUPPLY OUTLOOK

OWYHEE, MALHEUR WATERSHEDS

OREGON

G E N E R A L O U T L O O K

ABOVE NORMAL WATER SUPPLY IS EXPECTED IN THIS AREA. STREAMFLOW FOR THIS AREA IS FORECAST TO RANGE BETWEEN 110% AND 144% OF NORMAL. THIS IS A DIRECT REFLECTION OF THE SNOWPACK WATER WHICH IS FROM 115% TO 140% OF AVERAGE ON THE MAJOR DRAINAGES. FEBRUARY PRECIPITATION HAS BEEN 173% AND SEASONAL PRECIPITATION 140% OF AVERAGE. SOIL MOISTURE IS REPORTED TO BE NEAR NORMAL AND SPRING RUNOFF SHOULD BE GOOD. CURRENT RESERVOIR STORAGE RANGES FROM 42% AT WARMSPRINGS TO 134% AT BULLY CREEK.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Bully Creek	20	144	Mar.-May		13.9
Malheur near Drewsey	104	110	Mar.-July		94
	78	108	Apr.-Sept.		72
Malheur, North Fork at Beulah	83	115	Mar -July		72
	72	112	Apr.-Sept.		64
Owyhee Reservoir net Inflow	582	135	Mar -July	97	431
	465	140	Apr.-Sept.	97	332

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000	June 9	May 24
	250	July 1	June 20

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average c
Beulah Reservoir	60.0	22.1	28.2	30.8
Bully Creek	30.0	20.9	13.7	15.6
Owyhee	715.0	310.4	505.0	451.2
Warmsprings	191.0	40.9	83.4	96.5

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average c
Malheur River	1	208	123
Owyhee River	2	113	70

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average c
Jordan Creek	2	515	125
Malheur River	5	885	115
Owyhee River	5	610	140

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

OREGON

GENERAL OUTLOOK

THE WATER SUPPLY IN THIS AREA SHOULD BE ABOUT NORMAL. FORECASTS ON THE MAJOR STREAMS RANGE FROM 84% OF NORMAL ON THE GRANDE RONDE AT LA GRANDE, TO 111% ON THE POWDER RIVER NEAR SUMPTER. SNOWPACK WATER IS 75% TO 110% OF AVERAGE. PRECIPITATION WAS REPORTED AS 109% OF AVERAGE FOR FEBRUARY AND 125% FOR THE WINTER SEASON. RESERVOIR STORAGE IN GENERAL IS GOOD. SOIL MOISTURE IS WELL PRIMED.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Bear near Wallowa	70	106	Apr.-Sept.		66
Burnt near Hereford	47	110	Mar.-July		42
	37	110	Apr.-Sept.		33
Catherine near Union	69	106	Apr.-Sept.		65
Eagle Creek abv. Skull Creek	168	96	Apr.-July		175
	184	97	Apr.-Sept.		190
Grande Ronde at La Grande	163	84	Mar.-July.	89	193
	140	89	Apr.-Sept.	88	158
Hurricane near Joseph	48	102	Apr.-Sept.		47
Imnaha at Imnaha	326	106	Apr.-Sept.		307
Lostine near Lostine	124	99	Apr.-Sept.		125
Powder near Sumpter	61	111	Apr.-July		55
	62	111	Apr.-Sept.		56
Wallowa, East Fork near Joseph	12.4	102	Mar.-Sept.		12.2
	11.5	101	Apr.-Sept.		11.4
Wallowa near Joseph	63	90	May-July		76
Wolf Creek Net Inflow	11.7	88	Mar-June		13.3

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average c
Phillips Lake	73.5	18.9	45.7 a	----
Thief Valley	17.4	17.4	17.4 a	17.3
Unity	25.2	16.3	13.7	14.0
Wallowa Lake	37.5	15.8	25.2	22.3
Wolf Creek	10.4	3.1	----	----

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average c
Burnt River	4	600	110
Grande Ronde River above La Grande	4	320	75
Powder River	5	515	100
Wallowa, Imnaha, Catherine Creek	6	440	110

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average c
Burnt, Powder	2	---	124
Grande Ronde, Catherine Creek, Imnaha River	3	129	105

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

GENERAL OUTLOOK

THIS AREA MAY EXPERIENCE SOME LOCAL WATER SHORTAGES WHERE DIRECT DIVERSION IS THE MAJOR SOURCE. STREAMFLOW IS FORECAST TO BE 70% TO 90% OF NORMAL. FEBRUARY PRECIPITATION WAS NORMAL AND SEASONAL PRECIPITATION IS 117% OF AVERAGE, BUT THE SNOWPACK HAS ONLY 70% TO 80% OF ITS NORMAL WATER EQUIVALENT. MAJOR RESERVOIRS GENERALLY REPORT AVERAGE STORAGE. SOIL MOISTURE MEASUREMENTS INDICATE THAT SOILS ARE WELL PRIMED.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Birch Creek at Rieth	15.4	70	Mar - Jul		22
	11.2	70	Apr - Sept		16.0
McKay near Pilot Rock	16.8	70	Apr - Jul		24
	16.8	70	Apr - Sept		24
Umatilla near Gibbon	80	82	Mar - Sept		97
	58	77	Apr - Sept		75
Umatilla at Pendleton	150	75	Mar - Sept		200
	105	73	Apr - Sept		144
Walla Walla, South Fork near Milton	71	90	Mar - Sept		79
	59	90	Apr - Sept		66
Butter Cr. near Pine City	8.6	75	Mar - Jul		11.4

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	550	May 10	May 22

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [c]
Cold Springs	50.0	38.0	16.2	41.4
McKay	73.8	40.2	14.0	40.2

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [c]
Umatilla, Walla Walla, McKay Creek	3	125	100

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [c]
McKay Creek	3	165	70
Umatilla River	3	430	75
Walla Walla River	2	680	80

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK
UPPER JOHN DAY WATERSHEDS
OREGON

G E N E R A L O U T L O O K

THE UPPER JOHN DAY WATERSHED SHOULD HAVE NEAR NORMAL WATER SUPPLY AND NO SHORTAGES ARE EXPECTED. STREAMFLOW FORECASTS ARE FOR 85% TO 100% OF NORMAL VOLUME. PRECIPITATION HAS BEEN 106% OF NORMAL FOR FEBRUARY AND 116% FOR THE WINTER. THE SNOWPACK IS ALSO NORMAL FOR THIS TIME OF YEAR. SOIL MOISTURE IS REPORTED AS ABOVE AVERAGE. SPRING RUNOFF SHOULD BE GOOD.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Camas Creek near Ukiah	36	85	Mar.-July		43
	28	85	Apr.-Sept.		33
John Day, Middle Fork at Ritter	132	94	Mar.-July		129
	106	90	Apr.-Sept.		108
John Day, North Fork at Monument	614	95	Mar.-July		646
	486	90	Apr.-Sept.		540
Strawberry near Prairie City	7.2	100	Mar.-July		7.2
	7.3	96	Apr.-Sept.		7.6

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average c
John Day above Dayville	4	150	108
John Day, North Fork	1	141	103

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	Average c
John Day, North Fork	7	370	100
John Day abv. Dayville	5	750	105

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

UPPER DESCHUTES, CROOKED WATERSHEDS

OREGON

GENERAL OUTLOOK

WATER SUPPLY IN THIS AREA WILL BE VARIABLE. THE CROOKED RIVER WATERSHED SHOULD HAVE NORMAL TO ABOVE STREAMFLOW. FORECASTS FOR THIS DRAINAGE ARE 100% TO 115% OF NORMAL. WATERSHEDS ON THE EAST SIDE OF THE CASCADES DRAINING INTO THE DESCHUTES RIVER ARE FORECAST FOR BELOW NORMAL DISCHARGES RANGING FROM 72% TO 90%. SNOWPACK IS 105% IN THE CROOKED RIVER AREA AND 70% TO 80% IN THE DESCHUTES DRAINAGE OF THE CASCADES. MAJOR RESERVOIRS ALL REPORT GOOD STORAGE. FEBRUARY PRECIPITATION WAS 95% OF AVERAGE WITH THE SEASON BEING 128% OF AVERAGE. SOIL MOISTURE IS WELL RECHARGED. WATER SUPPLY WILL PROBABLY BE ADEQUATE EXCEPT IN SOME LOCAL AREAS WHICH DEPEND ON DIRECT DIVERSION.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Beaver Creek near Paulina	25	100	Mar.-July		25
	16.0	100	Apr.-Sept.		16.0
Crane Prairie Reservoir Total Inflow	101	85	Apr.-Sept.		119
Crescent at Crescent Lake	15.9	75	Mar.-July		21
	16.8	75	Apr.-Sept.		22
Crooked near Post	135	100	Mar.-July		135
	91	100	Apr.-Sept.		91
Deschutes at Benham Falls	300	84	Apr.-July		360
	465	85	Apr.-Sept.		550
Deschutes below Snow Creek	59	85	Mar.-Sept.		69
	53	85	Apr.-Sept.		62
Deschutes, Little near La Pine	79	90	Mar.-July		88
	70	85	Apr.-Sept.		82
Ochoco Reservoir net Inflow	31	115	Mar.-July		27
	22	117	Apr.-Sept.		18.8
Odell near Crescent	19.7	72	Apr.-Sept.		28
Squaw near Sisters	45	90	Apr.-Sept.		50
Tumalo near Bend	39	89	Apr.-Sept.		44
Deschutes at Bend			Aug-Sept.		---

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow	300	1/	July 15
Crooked R. near Post	100	June 3	June 1
Deschutes at Bend	1500	1/	July 1
Little Deschutes near La Pine	400	May 21	June 7
	200	June 10	July 8

1/ Issued April 1.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average c
Crane Prairie	55.3	49.0	45.1	43.4
Crescent Lake	86.9	52.9	69.6	48.3
Ochoco	47.5	31.1	24.7	25.6
Prineville	153.0	105.5	96.1	112.4
Wickiup	200.0	170.5	190.7	168.7

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average c
Crooked R., Upper Deschutes River	2	137	100

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average c
Crooked, Ochoco	4	680	105
Deschutes abv. Wickiup	3	530	70
Little Deschutes	4	535	80
Tumalo & Squaw Crs.	3	635	75

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

G E N E R A L O U T L O O K

WATER SUPPLY IN THIS AREA WILL BE BELOW NORMAL. STREAMFLOW IS FORECAST TO BE 80% TO 82% OF NORMAL. SNOWPACK WATER VARIES FROM 75% TO 100% OF NORMAL IN THE AREA. PRECIPITATION FOR FEBRUARY HAS ONLY BEEN 64% OF NORMAL WHILE THE SEASONAL PRECIPITATION HAS BEEN 123%. CLEAR LAKE IS REPORTING ABOVE AVERAGE STORAGE.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Hood, West Fork near Dee	108	82	Apr - Jul		132
	126	82	Apr - Sept		154
White below Tygh Valley	94	80	Apr - Jul		118
	106	80	Apr - Sept		133

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	*35	July 15-31	**39

* Average cfs forecast to flow for this two-week period.

** Average cfs for period of record.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [c]
Clear Lake (Wasco)	11.9	3.7	6.2	3.1

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [c]
Hood River	5	390	80
White River	3	415	75
Mile Creeks	3	610	100

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK
LOWER COLUMBIA WATERSHEDS
OREGON

G E N E R A L O U T L O O K

WATER SUPPLY FORECASTS HAVE BEEN REDUCED SINCE LAST MONTH. THE COLUMBIA RIVER AT THE DALLES SHOULD HAVE 98% OF AVERAGE DISCHARGE. THE SANDY RIVER IS FORECAST AT 78% AND REFLECTS THE BELOW AVERAGE CASCADE SNOWPACK.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average [c]
Sandy River	2	410	75

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Columbia at The Dalles*	71,697	98	Apr - June		73,160
	103,000	98	Apr - Sept		104,426
Sandy River near Marmot	268	78	Apr - Jul		343
	310	78	Apr - Sept		398

* This is a National Weather Service forecast.

HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW [d] (1,000 A F) APR — SEPT	APR — JUNE	MAY — JUNE	REGULATED PEAK (1,000 cfs)	DATE
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1968	89,000	55,500	47,900	404	June 13
1969	112,300	85,700	63,800	515	May 15
1970	88,100	62,800	55,200	425	May 28
1971	122,900	88,400	73,700	557	May 13
1972	134,700	96,400	81,400	619	June 20
1958-72 Avg.	104,300	72,900	59,900	529	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

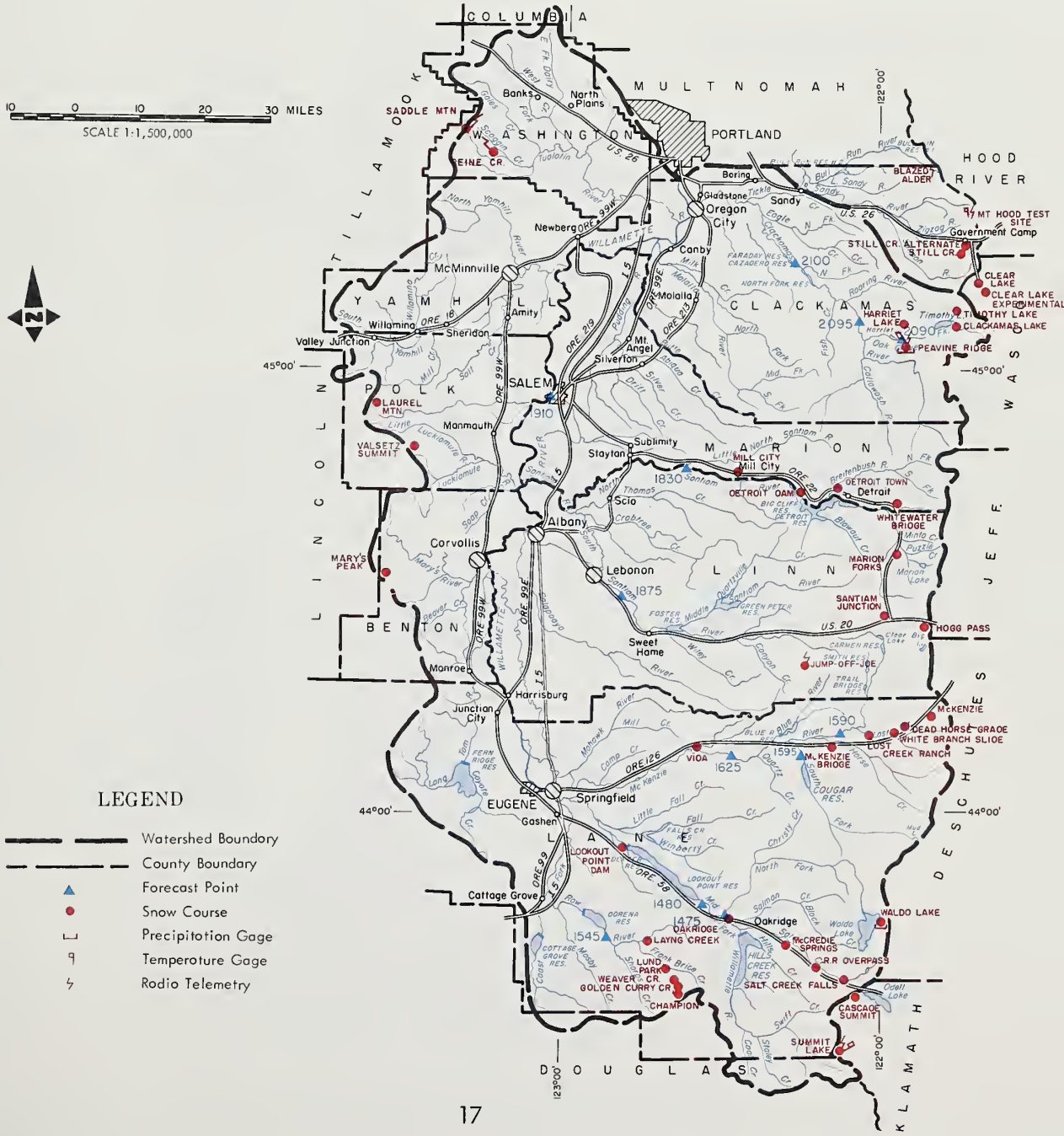
VANCOUVER GAGE (Weather Bu)	FLOW AT THE DALLES (1,000 cfs)	DRAINAGE DISTRICT PUMPHOUSE SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES 118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32 (1972)	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK
WILLAMETTE WATERSHEDS
OREGON

G E N E R A L O U T L O O K

NO SERIOUS WATER SHORTAGES ARE ANTICIPATED FOR THE WILLAMETTE AREA, ALTHOUGH FORECASTS ARE FOR BELOW NORMAL STREAMFLOW. FORECASTS HAVE BEEN REVISED UPWARD FROM A MONTH AGO, BUT STILL ONLY RANGE FROM 70% TO 79% OF NORMAL. FEBRUARY PRECIPITATION WAS 77% OF AVERAGE. SSEASONAL PRECIPITATION HAS BEEN 107% OF AVERAGE. SNOWPACK WATER IS POOR IN THE CASCADES AND FOR THE WILLAMETTE WATERSHED THE SNOWPACK IS 40% TO 65% OF NORMAL. RESERVOIRS ARE BEING FILLED AND MOST WILL ACHIEVE THEIR NORMAL STORAGE.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT,	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Clackamas at Estacada	519	77	Apr - Jul		674
	624	79	Apr - Sep		789
Clackamas above Three Lynx	374	74	Apr - Jul		507
	463	77	Apr - Sep		604
McKenzie at McKenzie Bridge	340	75	Apr - Jul		454
	449	75	Apr - Sep		599
McKenzie near Vida	776	75	Apr - Jul		1,035
	947	75	Apr - Sep		1,263
McKenzie, So. Fork near Rainbow	156	74	Apr - Jul		210
	184	77	Apr - Sep		239
Oak Grove Fork above Power Intake	92	75	Apr - Jul		123
	122	75	Apr - Sep		162
Row near Dorena	70	71	Apr - Jul		98
	72	71	Apr - Sep		102
Santiam, North at Mehama	536	70	Apr - Jul		765
	611	70	Apr - Sep		872
Santiam, South at Waterloo	394	70	Apr - Jul		564
	436	70	Apr - Sep		607
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge	508	75	Apr - Jul	504	678
	585	75	Apr - Sep	582	779
Willamette, No. Fk. of Mid. Fk. near Oakridge	146	77	Apr - Jul		189
	164	78	Apr - Sep		209
Willamette at Salem	3298	75	Apr - Jul		4,397
	3707	75	Apr - Sep		4,943

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [c]
Clackamas River	2	280	45
McKenzie River	3	225	40
Row River	2	310	60
Santiam River	4	340	40
Willamette, Mid. Fk.	5	360	65

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [c]
Blue River	85.6*	23.0	8.4	----
Cottage Grove	30.0*	6.9	0.8	8.4
Cougar	155.2*	41.0	5.3	41.7
Detroit	299.9*	79.1	0.0	110.6
Dorena	70.5*	16.5	1.7	10.9
Fall Creek	115.0*	32.0	0.0	37.5
Fern Ridge	94.2*	32.3	6.7	36.3
Foster	30.0*	2.7	4.1	6.0
Green Peter	270.0*	70.0	0.0	109.7
Hills Creek	200.0*	65.5	0.0	----
Lookout Point	337.2*	85.0	0.0	59.9
Timothy Lake	61.7	53.3	44.3	97.3
Henry Hagg Lake	53.0	46.3	24.7	53.0

* Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

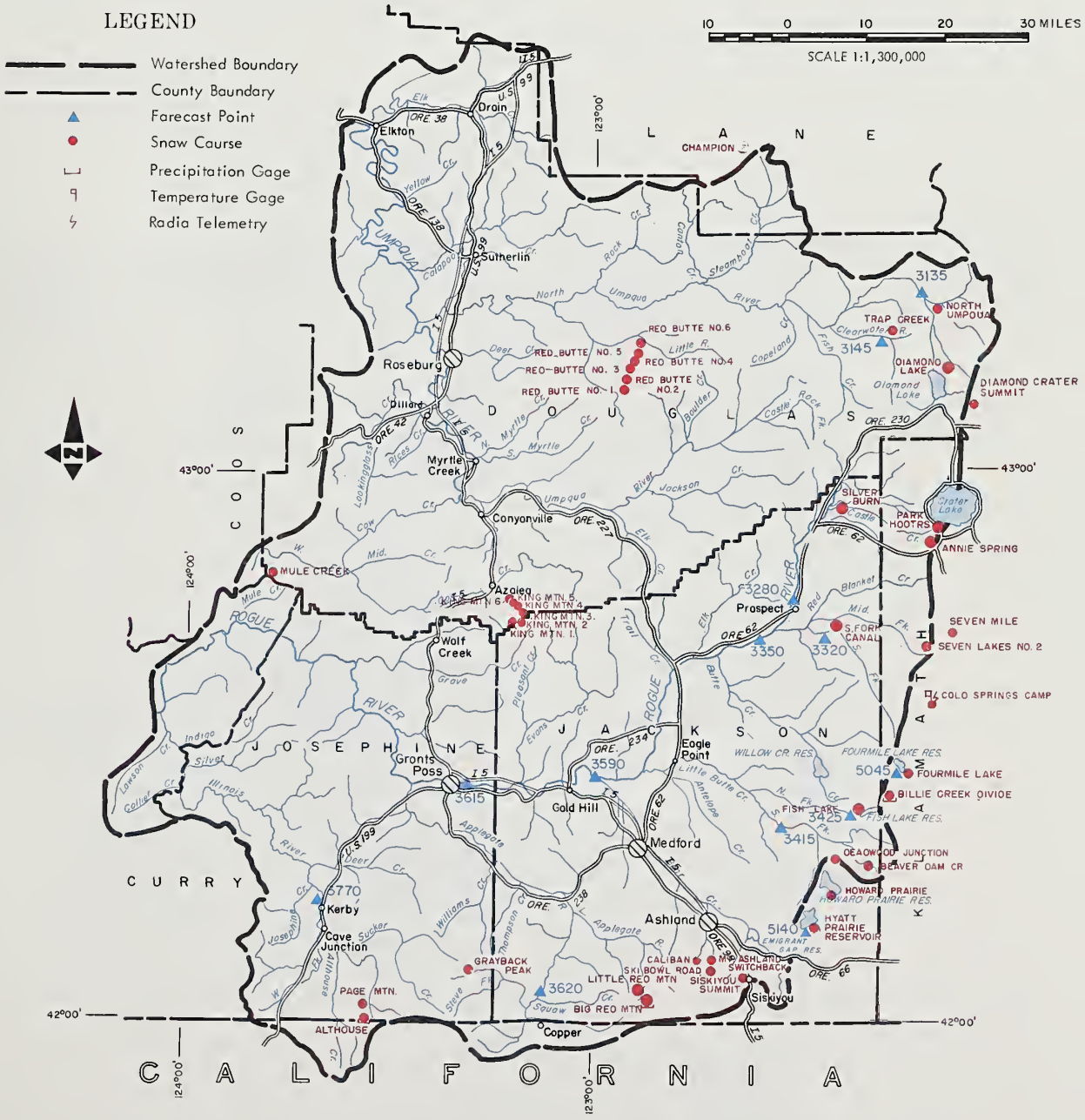
WATER SUPPLY OUTLOOK

ROGUE, UMPQUA, WATERSHEDS

OREGON

GENERAL OUTLOOK

FORECASTS IN THIS AREA ARE FOR BELOW NORMAL WATER DISCHARGE, ALTHOUGH ACTUAL SHORTAGES MAY NOT OCCUR, EXCEPT LOCALLY. VOLUME FORECASTS ARE FOR 60% TO 91% OF NORMAL FLOW. SNOWPACK WATER VARIES FROM 60% TO 95% OF AVERAGE OVER THE AREA. PRECIPITATION WAS 102% OF AVERAGE IN FEBRUARY BUT ONLY 93% OF AVERAGE FOR THE SEASON. MAJOR RESERVOIRS REPORT NEAR AVERAGE STORAGE.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Applegate near Copper	113	85	Apr. - Sept.		133
Clearwater above Trap Creek	63	91	Apr. - Sept.		69
Fourmile Lake net Inflow	3.6	85	Apr. - Sept.		4.3
Hyatt Reservoir net Inflow	2.7	60	Apr. - July		4.6
Illinois River near Kerby	134	70	Apr. - July		191
	138	70	Apr. - Sept.		197
Little Butte, N. Fk. at Fish Lake nr. Lake Cr.	11.7	85	Apr. - Sept.		13.7
Little Butte, S. Fk. near Lake Creek	24	86	Apr. - July		28
Rogue above Prospect	212	83	Apr. - July		256
	249	80	Apr. - Sept.		311
Rogue, South Fork near Prospect	50	82	Apr. - July		61
	59	82	Apr. - Sept.		72
Rogue at Raygold near Central Point	602	82	Apr. - July	401	735
	744	84	Apr. - Sept.	529	890
Rogue at Grants Pass	712	80	Apr. - Sept.		890
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls*	144	87	Apr. - Sept.		166

*National Weather Service Forecast.

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork	100	May 12	May 27

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average c
Emigrant Lake	39.0	33.3	25.7	28.5*
Fish Lake	8.0	4.8	7.2	5.5
Fourmile Lake	16.1	7.1	14.4	8.7
Howard Prairie	60.0	36.9	51.7	35.9
Hyatt Prairie	16.1	10.6	13.6	11.3

* Average for years of record (in base period) after reconstruction.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average c
Applegate	3	560	95
Bear Creek	2	445	80
Butte Creek	4	275	65
Illinois River	3	205	70
North Umpqua	3	330	60
Rogue River	4	410	85

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK
KLAMATH WATERSHEDS
OREGON

G E N E R A L O U T L O O K

NORMAL WATER SUPPLY IS EXPECTED IN THE KLAMATH AREA WITH THE POSSIBLE EXCEPTION OF THE LOST RIVER AREA. STREAMFLOW FORECASTS RANGE FROM 75% AT CLEAR LAKE RESERVOIR TO 92% FOR THE WILLIAMSON RIVER. KLAMATH LAKE INFLOW IS FORECAST AT 90% OF NORMAL. SNOWPACK WATER RANGES FROM 70% AROUND LOST RIVER TO 110% ON THE WILLIAMSON RIVER DRAINAGE. RESERVOIR STORAGE IS BELOW NORMAL BUT KLAMATH LAKE IS ALMOST UP TO AVERAGE STORAGE. FEBRUARY PRECIPITATION WAS 97% AND SEASONAL PRECIPITATION 116% OF AVERAGE. SOIL MOISTURE IS ABOVE AVERAGE.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Clear Lake Reservoir Inflow	50	75	Mar - Jul		67
Gerber Reservoir Inflow	25	80	Mar - Jul		31
Sprague near Chiloquin	244	90	Mar - Jul		271
	218	90	Apr - Sep		242
Upper Klamath Lake net Inflow	652	90	Mar - Jul	317	724
	482	90	Apr - Sep	290	536
Williamson below Sprague River	381	92	Apr - Sep	233	414

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average c
Upper Klamath	1	153	107

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Last Year	Average c
Clear Lake	440.2	176.2	210.6	227.1
Gerber	94.0	39.5	35.3	53.5
Upper Klamath Lake	584.0	398.9	374.1	422.6

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	Average c
Lost River	4	385	70
Sprague River	3	795	105
Upper Klamath	6	680	95
Williamson River	3	950	110

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average.((d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

LAKE COUNTY, GOOSE LAKE WATERSHEDS

OREGON

GENERAL OUTLOOK

WATER SUPPLIES SHOULD BE ADEQUATE OVER MOST OF THE AREA ALTHOUGH FORECASTS HAVE BEEN GENERALLY REVISED DOWNWARD SINCE LAST MONTH. THE ONE AREA WHICH MAY HAVE SHORTAGES IS THAT AROUND DREW RESERVOIR. FORECAST INFLOW TO DREW RESERVOIR IS 65%, WHEREAS, OTHER AREA FORECASTS RANGE 85% TO 100%. SNOWPACK WATER IS 70% OF AVERAGE IN THE DREW AREA AND 85% TO 155% OF AVERAGE ELSEWHERE. THE GENERAL SNOWPACK CONDITIONS HAS DETERIORATED SINCE LAST MONTH. FEBRUARY PRECIPITATION WAS ONLY 74% OF AVERAGE AND SEASONAL PRECIPITATION IS NOW NEAR AVERAGE. RESERVOIR STORAGE IS GENERALLY BELOW AVERAGE EXCEPT FOR COTTONWOOD RESERVOIR. SOIL MOISTURE IS STILL ABOVE AVERAGE.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Chewaucan near Paisley	87	100	Mar - Jul	12.3	87
Deep above Adel	66	85	Mar - Jul		78
Drews Reservoir net Inflow	27	65	Mar - Jul		41
Honey Creek near Plush	17	87	Mar - Jul		20
Silver Creek near Silver Lake	11.6	85	Apr - Jul		13.7
Twentymile near Adel	23	88	Mar - Jul		26

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average c
Chewaucan, Silver Creek, Drew Creek	1	153	107
Honey, Deep, 20-Mi. Cr.	1	113	102

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average c
Cottonwood	8.7	4.1	1.4	4.0*
Drews	63.0	25.1	21.5	39.8
Thompson Valley	19.5	7.8	9.0	----

* Average for years of record (in base period) after reconstruction.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

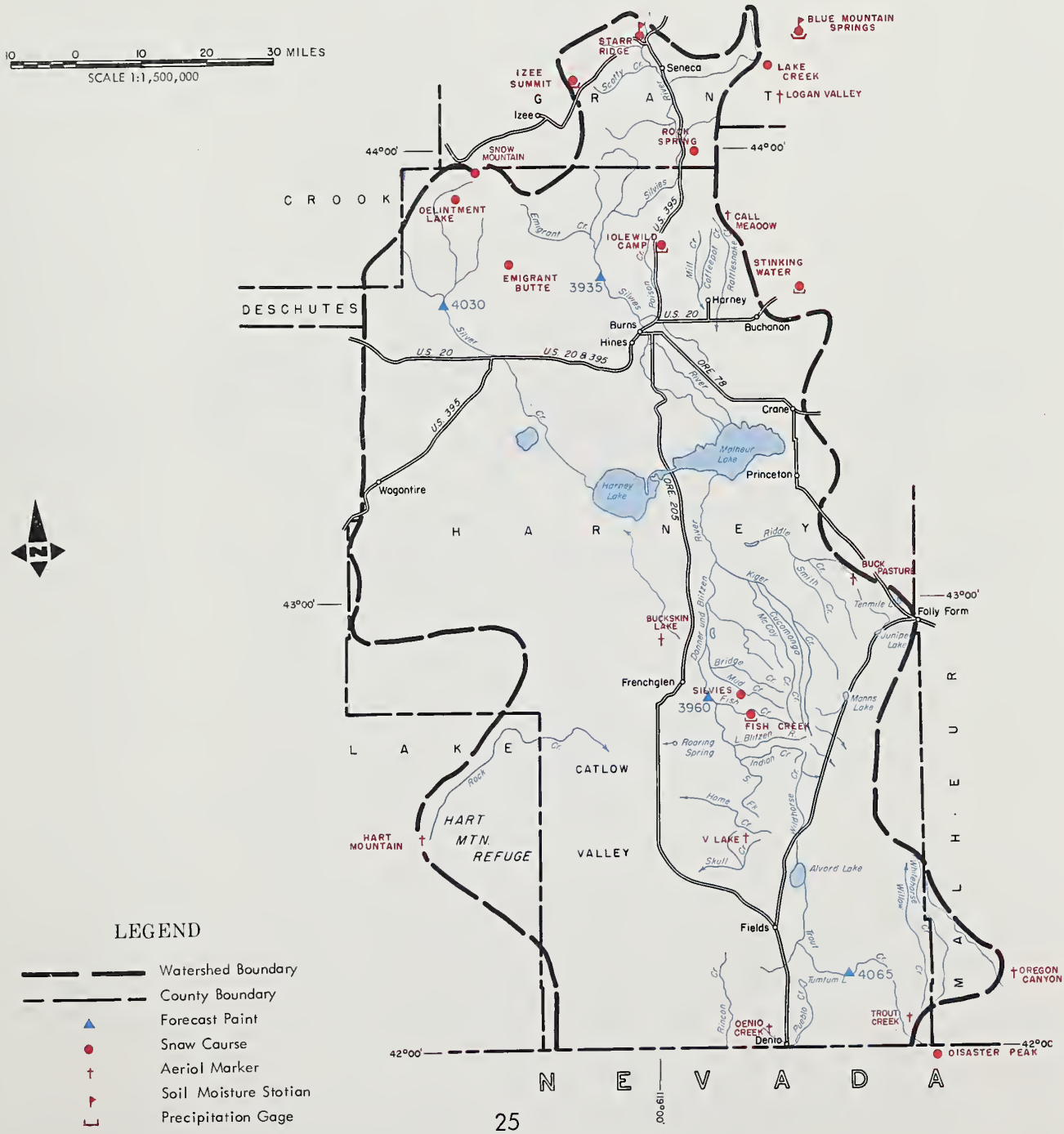
RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	Average c
Chewaucan River	3	730	105
Deep Creek	2	475	85
Drew Creek	3	710	70
Honey Creek	3	535	85
Silver Creek	3	1190	110
Twentymile Creek	2	790	155

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK
HARNEY BASIN WATERSHEDS
OREGON

G E N E R A L O U T L O O K

HARNEY BASIN CAN STILL EXPECT NORMAL OR ABOVE WATER SUPPLIES. FORECASTS ARE FOR STREAM DISCHARGES OF 100% TO 126% OF NORMAL. SNOWPACK WATER RANGES FROM 100% TO 150% OF AVERAGE. PRECIPITATION WAS 96% OF NORMAL FOR FEBRUARY AND HAS BEEN 114% OF NORMAL FOR THE SEASON. SOIL MOISTURE IS STILL ABOVE AVERAGE.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Donner und Blitzen near Frenchglen	58	106	Mar - Jul		55
	55	104	Apr - Sep		53
Silver near Riley	18.7	120	Apr - Jul		15.6
Silvies River near Burns	94	100	Mar - Jul	10.6	94
	74	100	Apr - Sep	12.3	74
Trout Creek near Denio	10.5	125	Mar - Jul		8.4
	10.0	126	Apr - Sep		7.9

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [c]
Silvies River, Silver Cr.	1	133	108
Trout Cr., Donner und Blitzen River		No Report	

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF: Average [c]
Donner und Blitzen R.	4	395	120
Silver Creek	3	885	125
Silvies River	4	680	100
Trout Creek	3	595	150

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 1

MARCH 1, 1978

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)	3/3	26	9.2	0.2	6.1
Battle Creek (Ida.)	2/28	18	5.0	0.1	2.9
Bear Creek (Nev.)	2/26	60	20.7	8.6	17.3
Big Bend (Nev.)	2/28	33	9.5	0.8	7.6
Blue Mountain Springs	2/28	40	14.4	2.3	14.1
Blue Mtn. Springs Pillow*	2/28	---	18.2	2.6	---
Buck Pasture***	2/28	12	3.4	0.1	2.1
Buckskin, Lower (Nev.)	2/28	28	8.2	0.7	7.4
Buckskin, Upper (Nev.)	2/28	32	10.2	0.4	8.7
Bull Basin (Ida.)	2/28	8	2.2	0.2	1.1
Bully Creek***	2/28	12	4.0	0.1	2.5
Call Meadow***	2/28	21	6.9	0.3	4.0
Columbia Basin (Nev.)	2/23	48	13.4	0.8	8.1
Cottonwood-Indian***	2/28	2	0.7	0.0	0.8
Disaster Peak (Nev.)	2/28	42	15.9	1.8	13.4
Eldorado Pass	3/1	20	6.6	0.8	2.8
Fawn Creek (Nev.)	2/28	23	7.5	1.1	4.4[b]
Fish Creek	2/28	73	27.4	6.7	21.1
Fish Creek***	2/28	66	23.8	5.4	19.1
Fish Creek Pillow*	No Report			---	---
Flag Prairie***	2/28	21	6.9	0.1	4.2
Fox Creek (Nev.)	2/26	38	10.7	4.8	9.0
Fry Canyon (Nev.)	2/27	26	7.1	0.8	6.3
Gold Creek (Nev.)	2/27	20	5.8	0.7	4.9
Granite Peak (Nev.)	2/28	56	19.9	3.5	13.2
Hyde Pasture (Ida.)	2/28	24	7.0	0.4	4.9
Jack Creek, Lower (Nev.)	2/27	14	4.3	0.5	---
Jack Creek, Upper (Nev.)	2/27	27	7.9	2.2	7.7
Jack Peak (Nev.)	2/27	63	20.4	6.2	---
Lake Creek R.S.	3/1	---	9.0[a]	0.5	9.1
Lake Creek R.S. Pillow	2/28	30	11.0	---	---
Laurel Draw (Nev.)	2/28	29	8.1	2.1	6.4[b]
Logan Valley***	2/28	21	6.9	1.5	7.4[b]
Lookout Butte***	2/28	T	0.1	0.0	0.2
Louse Canyon***	2/28	28	8.4	0.3	2.8
Martin Creek (Nev.)	2/28	37	11.8	2.3	8.9
Merritt Mountain (Nev.)	2/23	18	5.2	2.0	5.8[b]
Midas (Nev.)	2/28	32	10.4	0.1	3.3
Mud Flat (Ida.)	3/3	32	11.3	0.4	5.4
Oregon Canyon***	2/28	18	5.0	0.4	4.8
Quinn Ridge (Nev.)	2/28	12	3.4	0.1	1.8
Red Canyon (Ida.)	2/28	28	8.4	2.4	5.9
Rock Spring	2/28	---	4.9[a]	0.6	4.9
Rodeo Flat (Nev.)	2/27	23	6.1	0.7	4.9
76 Creek (Nev.)	2/26	40	13.4	4.3	10.0
Silver City (Ida.)	2/28	50	15.6	3.5	13.8
Silver City (Ida.)***	2/28	50	15.5	3.2	---
Silvies	2/28	35	13.4	4.0	9.9
Silvies***	2/28	28	9.0	4.2	7.7
Silvies Pillow*	2/28	---	18.0	9.7	---
South Mountain #2 (Ida.)	2/25	43	15.8	2.6	11.3
Stag Mountain (Nev.)	2/23	22	6.4	0.8	5.0[b]
Stinking Water	2/24	15	3.7	0.0	1.9[b]
Succor Creek (Ida.)	2/28	27	8.1	2.4	5.4
Taylor Canyon (Nev.)	2/28	23	6.7	0.6	4.1
Toe Jam (Nev.)	2/23	34	9.7	0.1	7.9[b]
Tremewan Ranch (Nev.)	2/27	13	3.8	0.4	1.2
Triangle (Ida.)	2/28	T	0.1	0.1	---
Trout Creek***	2/28	36	11.5	2.4	6.4
"V" Lake	2/28	30	9.6	1.2	4.9
Vaught Ranch (Ida.)	2/28	24	7.0	0.1	3.3
War Eagle (Ida.)	2/28	75	23.2	5.4	22.1

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Aneroid Lake #1	2/28	89	30.8	4.0	31.4
Aneroid Lake #2	2/28	80	27.6	3.4	27.9
Anthony Lake	2/23	60	20.4	4.8	22.4
Bald Mountain (Ore.)***	2/27	68	22.4	7.2	20.1
Beaver Reservoir	2/28	30	8.4	2.5	11.0
Big Sheep***	2/28	75	25.5	6.6	23.1
Blue Mtn. Summit	2/28	30	10.0	1.4[a]	7.7
Bourne	2/27	48	14.4	1.0	14.1
Bourne Pillow*	2/28	---	19.6	---	---
County Line	2/27	13	3.2	1.1	4.5
Dooley Mountain	2/24	32	9.6	1.6	8.1
Eilertson Meadows	2/28	34	10.5	0.5	10.1
Eldorado Pass	3/1	20	6.6	0.8	2.8
Gold Center	2/28	36	11.2	2.5[a]	11.7
Goodrich Lake	2/28	81	29.8	4.2	35.4[b]
Little Alps	2/23	34	9.2	2.6	11.8[b]
Little Antone	2/23	21	6.6	1.1	7.2
Little Antone Alt.	2/23	22	6.4	2.4	---
Lucky Strike	2/28	36	9.7	7.3	11.0
Lucky Strike Pillow*	2/28	---	5.3	---	---
Meacham	2/28	15	5.7	1.5	8.1
Mirror Lake	2/28	162	59.9	11.4	59.0
Moss Spring	2/28	71	21.2	8.2	19.9
Schneider Meadow	2/27	90	30.6	4.6	27.3
Schneider Meadow Pillow*	2/27	---	27.0	---	---
Schoolmarm	3/1	---	2.6[a]	0.9[a]	3.7
Standley***	2/27	89	31.2	6.3	25.6
Taylor Green	2/27	46	15.0	4.8	14.7[b]
Taylor Green Pillow	2/27	62	19.0	---	---
Tipton	2/28	30	10.2	1.2	9.4
Tipton Snow Pillow*	2/28	---	15.6	2.6	---
Tollgate	2/28	53	18.9	3.1	21.4
TV Ridge	2/28	56	18.5	3.2	18.2
West Eagle Meadows	2/27	84	28.6	11.8	---
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain	2/28	25	8.1	4.8	9.2
Arbuckle Mtn. Pillow*	2/28	---	17.4	6.7	---
Blue Mountain Camp	2/28	20	8.9	1.0	12.6
Bowman Springs	2/28	25	7.0	3.0	---
Bowman Springs Pillow*	2/28	---	8.7	3.7	---
Butte Creek Summit	2/28	0	0.0	1.6	---
Emigrant Springs	2/28	---	0.1	1.2	4.0
Emigrant Springs Pillow	2/28	0	0.0	---	---
High Ridge	2/27	66	24.2	---	---
High Ridge Pillow*	No Report			8.9	
Lucky Strike	2/28	36	9.7	7.3	11.0
Lucky Strike Pillow*	2/28	---	5.3	---	---
Meacham	2/28	15	5.7	1.5	8.1
Tollgate	2/28	53	18.9	3.1	21.4

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DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
UPPER JOHN DAY WATERSHEDS					
Anthony Lake	2/23	60	20.4	4.8	22.4
Arbuckle Mountain	2/28	25	8.1	4.8	9.2
Arbuckle Mt. Pillow*	2/28	---	17.4	6.7	---
Blue Mountain Springs	2/28	40	14.4	2.3	14.1
Blue Mt. Springs Pillow*	2/28	---	18.2	2.6	---
Blue Mt. Summit	2/28	30	10.0	1.4[a]	7.7
Butte Creek Summit	2/28	0	0.0	1.6	---
Derr	2/23	27	8.3	1.0	8.5
Derr Pillow	2/23	42	13.5	---	---
Gold Center	2/28	36	11.2	2.5[a]	11.7
Gold Center Pillow	2/28	32	9.5	---	---
Indian Creek Butte***	2/28	85	31.4	4.2	20.8
Izee Summit	2/28	---	6.9[a]	1.2	7.0
Lucky Strike	2/28	36	9.7	7.3	11.0
Lucky Strike Pillow*	2/28	---	5.3	---	---
Marks Creek	2/28	T	0.1	0.1	2.9
Ochoco Meadows	2/28	29	10.4	1.5	8.1
Ochoco Mdw. Pillow	2/28	36	12.8	---	---
Olive Lake***	2/28	56	19.6	4.2	17.6[b]
Schoolmarm	3/1	---	2.6[a]	0.9	3.7
Snow Mountain	2/27	40	14.6	3.6[a]	11.9[b]
Snow Mt. Pillow		No Report		---	---
Snow Mt. Pillow**	2/28	---	10.4	2.2	
Starr Ridge	2/28	15	5.0	0.7	4.9
Tipton	2/28	30	10.2	1.2	9.4
Tipton Snow Pillow*	2/28	---	15.6	2.6	---
UPPER DESCHUTES, CROOKED WATERSHEDS					
Bald Peter	2/27	76	28.6	4.2	---
Caldwell Ranch	2/28	---	5.7[a]	1.2[a]	8.6[b]
Cascade Summit	2/27	42	16.2	4.5	23.6
Chemult Alternate	2/28	29	10.5	0.6	---
Derr	2/23	27	8.3	1.0	8.5
Derr Pillow	2/23	42	13.5	--	---
Hogg Pass	2/27	56	19.8	3.6	33.2
Hogg Pass Pillow	2/27	56	22.7	---	---
Hungry Flat	2/28	0	0.0	0.1	4.6
Irish-Taylor Pillow**	No Report		---	---	32.6[b]
Irish-Taylor Pillow	2/27	64	20.8	---	---
Lionshead***	2/28	42	15.5	2.8	---
Marks Creek	2/28	T	0.1	0.1	2.9
New Crescent Lake	2/28	21	7.3	1.0	11.8
New Dutchman Flat #2	2/28	88	33.3	5.9	43.4
Ochoco Meadows	2/28	29	10.4	1.5	8.1
Ochoco Meadows Pillow	2/28	36	12.8	---	---
Racing Creek	2/27	35	11.0	1.0	---
Snow Mountain	2/27	40	14.6	3.6[a]	11.9[b]
Snow Mt. Pillow	No Report			---	---
Snow Mt. Pillow**	2/28	---	10.4	2.2	---
Summit Lake Pillow*	2/28	---	21.1	5.0	32.6[b]
Summit Lake Pillow**	2/28	73	24.1	5.0	---
Tamarack	2/22	13	3.1	0.4	4.5
Tangent	2/28	42	15.8	2.2	20.0
Three Creek Butte	2/24	17	6.6	0.9	9.0
Three Creek Meadow	2/24	26	8.8	1.0	15.6
Three Creek Mdw. Pillow	2/24	38	13.0	---	---
Waldo Lake	3/1	---	17.3[a]	5.6[a]	23.3[b]
Whitewater Meadow	2/28	10	3.5	2.0	---

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadows	2/24	27	9.6	1.8	9.6[b]
Clear Lake	2/24	13	4.6	0.9	7.8
Clear Lake (Experimental)	2/24	28	10.0	1.8	12.8
Greenpoint	2/28	40	14.0	1.2	13.6
Greenpoint Pillow*	2/28	---	14.1	---	---
Knebal Springs	2/24	---	7.0[a]	1.3[a]	6.7[b]
Mt. Hood Test Site	2/27	116	44.4	10.1	52.3
Mud Ridge Pillow	2/28	38	14.2	---	---
Red Hill	3/1	---	25.8[a]	9.8[a]	31.6
Red Hill Pillow*	3/3	---	25.8	---	---
Still Creek	2/28	24	8.4	2.8	18.3
Switchback	2/22	25	10.0	1.7	10.7[b]
Tilly Jane	2/24	81	32.1	3.2	33.7
Ulrich Ranch Junction	2/24	---	4.2[a]	0.3[a]	3.6[b]
Umbrella Falls	2/28	124	45.0	13.7	56.7
WILLAMETTE WATERSHEDS					
Cascade Summit	2/27	42	16.2	4.5	23.6
Champion	2/27	44	16.4	3.8	23.2[b]
Clackamas Lake	3/1	10	3.0	1.8	10.3
Clear Lake	2/24	13	4.6	0.9	7.8
Clear Lake (Expt.)	2/24	28	10.0	1.8	12.3
Dead Horse Grade	2/26	T	0.1	1.5	13.5
Detroit (Town)	2/27	0	0.0	0.0	0.9
Detroit Dam	2/27	0	0.0	0.0	0.5
Golden Curry Creek	2/27	0	0.0	1.5	5.2
Hogg Pass	2/27	56	19.8	3.6	33.2
Hogg Pass Pillow	2/27	56	22.7	---	---
Lake Harriet	No Report			---	2.3
Laurel Mountain	2/28	0	0.0	1.6	---
Layng Creek	2/27	0	0.0	0.0	0.1
Lookout Point Dam	2/27	0	0.0	0.0	0.0
Lost Creek Ranch	2/26	0	0.0	0.0	3.6
Lund Park	2/27	0	0.0	0.0	0.5
Marion Forks		e		0.1	9.1
Marion Forks Pillow*	2/27	---	0.0	---	---
Marys Peak	2/27	T	0.1	4.0	10.0
McCredie Springs	2/27	0	0.0	0.0	0.4
McKenzie	2/26	58	21.2	6.6	36.2
McKenzie Bridge	2/26	0	0.0	0.0	0.0
Mill City	2/27	0	0.0	0.0	0.1
Mt. Hood Test Site	2/27	116	44.4	10.1	52.3
Mud Ridge		e		---	---
Mud Ridge Pillow	2/28	38	14.2	---	---
Oakridge	2/27	0	0.0	0.0	0.0
Peavine Ridge Pillow**	2/28	---	4.6	2.4[a]	13.1[b]
Railroad Overpass	2/27	0	0.0	0.0	1.9
Saddle Mountain Pillow**	2/28	---	0.2	1.1	---
Salt Creek Falls	2/27	3	0.8	1.4	12.3
Santiam Junction	2/27	19	7.1	2.1	19.2
Santiam Jct. Pillow*	2/27	---	8.8	---	---
Seine Creek Pillow**	2/28	---	0.0	---	2.4
Still Creek	2/28	24	8.4	2.8	18.3
Summit Lake Pillow*	2/28	---	21.1	5.0	32.6[b]
Summit Lake Pillow	2/28	73	24.1	5.0	---
Timothy Lake	2/23	17	4.5	1.5	12.8
Valsetz Summit	2/28	0	0.0	0.1	---
Vida	2/26	0	0.0	0.0	0.1
Waldo Lake	3/1	---	17.3[a]	5.6[a]	23.3[b]
Weaver Creek	2/27	0	0.0	0.0	0.7
White Branch Slide	2/26	0	0.0	1.4	5.6
Whitewater Bridge	2/27	0	0.0	0.1	3.9

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DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
ROGUE, UMPQUA WATERSHEDS					
Althouse	2/27	4	1.6	4.4	6.5
Annie Spring	2/28	97	36.6	7.6	36.3
Beaver Dam Creek	3/1	18	7.9	2.5	11.5[b]
Big Red Mountain	2/27	64	25.9	4.8	26.4
Billie Creek Divide	3/1	37	14.5	3.5	17.9
Billie Creek Div. Pillow*	3/1	--	16.3	1.2	---
Caliban	2/24	86	32.7	4.2	29.5[b]
Caliban (Alternate)	2/24	75	28.6	4.0	---
Champion	2/27	44	16.4	3.8	23.2[b]
Cold Springs Camp	3/2	74	27.3	7.9	28.2
Cold Spgs. Camp Pillow*	3/2	---	18.8	---	---
Deadwood Junction	3/1	0	0.0	2.5	8.1[b]
Diamond-Crater Summit	2/28	---	31.3[a]	4.3	25.8[b]
Diamond Lake	3/1	---	14.[a]	2.3	17.2
Fish Lake	2/27	20	8.0	3.0[a]	11.5[b]
Fourmile Lake	3/1	49	20.2	4.5[a]	21.3[b]
Fourmile Lake Pillow	3/1	---	27.4	---	---
Grayback Peak	2/22	53	21.5	3.7	22.7
Howard Prairie Reservoir	3/1	17	7.0	2.7	7.8[b]
Hyatt Prairie	3/1	0	0.0	2.1	7.0
King Mountain #1	2/24	10	4.2	2.8	8.1
King Mountain #2	2/24	T	0.1	2.0	5.8
King Mountain #3	2/24	0	0	1.2	1.9
King Mountain #4	2/24	0	0	0.0	0.0
King Mountain #5	2/24	0	0	0.0	0.0
King Mountain #6	2/24	0	0	0.0	0.0
Little Red Mountain	2/27	---	20.6[a]	3.6	21.6
Mt. Ashland Switchback	2/24	77	27.0	4.8	28.2[b]
Mule Creek	2/24	0	0.0	4.3	---
North Umpqua	2/27	13	5.4	2.5	11.5
Page Mountain	2/27	T	0.1	3.1	3.6
Park Headquarters	2/28	123	48.4	10.7	48.6
Red Butte #1	2/23	8	3.2	1.8	11.6[b]
Red Butte #2	2/23	T	0.1	1.5	7.2[b]
Red Butte #3	2/23	0	0.0	0.5	5.7[b]
Red Butte #4	2/23	0	0.0	0.4	2.4[b]
Red Butte #5	2/23	0	0.0	0.0	0.5
Red Butte #6	2/23	0	0.0	0.0	0.2
Seven Mile	2/28	71	26.7	10.1	--
Seven Mile Pillow	2/28	72	27.0	8.4	--
Silver Burn	2/25	12	4.7	1.0	10.9
Siskiyou Summit	2/24	T	0.1	1.3	6.3
Ski Bowl Road	2/27	86	29.8	4.8	24.0[b]
South Fork Canal	2/25	0	0.0	0.5[a]	2.0
Trap Creek	2/27	5	2.2	2.0	9.2

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
KLAMATH WATERSHEDS					
Annie Spring	2/28	97	36.6	7.6	36.3
Billie Creek Divide	3/1	37	14.5	3.5	17.9
Billie Creek Div. Pillow*	3/1	---	16.3	1.2	---
Chemult (Alternate)	2/28	29	10.5	0.6	---
Chiloquin (PP&L)	2/28	0	0.0	---	1.0
Cold Springs Camp	3/2	74	27.3	7.9	28.2
Cold Springs Camp Pillow**	3/2	---	18.8	---	---
Crazyman Flat***	2/22	27	8.9	0.7	8.5
Crowder Flat (Calif.)	2/22	0	0.0	0.2	2.1
Crystal (PP&L)	2/28	0	0.0	---	7.2
Diamond-Crater Summit	2/28	---	31.3[a]	4.3	25.8[b]
Dog Hollow	2/22	0	0.0	0.1	0.5
Finley Corrals***	2/22	41	14.4	2.2	14.2
Fort Klamath (PP&L)	2/28	T	0.1	---	2.9
Fourmile Lake	3/1	49	20.2	4.5[a]	21.3[b]
Fourmile Lake Pillow*	3/1	---	27.4	---	---
Gerber	3/1	0	0.0	0.4	1.9[b]
Harriman (PP&L)	2/28	0	0.0	0.9	3.3
Howard Prairie	3/1	17	7.0	2.7	7.8[b]
Hyatt Prairie Reservoir	3/1	0	0.0	2.1	7.0
Kirk (PP&L)	2/28	T	0.1	---	5.[illegible]
Park Headquarters	2/28	123	48.4	10.7	48.6
Quartz Mountain	2/24	11	4.6	0.3	5.6
Seven Mile	2/28	71	26.7	10.1	---
Seven Mile Pillow	2/28	72	27.0	8.4	---
State Line (Calif.)	2/22	12	4.0	0.5	7.5
Strawberry	2/25	18	5.0	0.8	6.5
Strawberry***	No Report			---	6.4[b]
Summer Rim	2/28	40	13.8	1.6	13.2
Summer Rim***	2/22	40	16.8	2.5	14.5
Summer Rim Pillow*	No Report			1.0	---
Sycan Flat	2/22	15	5.0	0.4	6.2
Taylor Butte	2/27	18	7.3	0.7	4.4
Taylor Butte Pillow	2/27	20	7.5	0.4	---
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Adin Mountain (Calif.)	2/22	27	9.2	1.5	10.9
Bald Mountain (Nev.)	2/22	14	4.6	0.4	3.4
Bear Flat Meadow	2/22	36	11.9	0.6	9.1
Camas Creek #1	2/27	21	7.4	1.1	9.2
Camas Creek #2	2/27	27	8.9	---	---
Cedar Pass (Calif.)	2/22	34	12.1	3.0	13.1
Colvin Creek***	2/22	14	5.9	0.4	4.6
Cox Flat	2/22	21	6.9	0.3	6.8
Crowder Flat (Calif.)	2/22	0	0.0	0.2	2.1
Dismal Swamp (Calif.)	2/22	60	22.2	3.0	14.1
Finley Corrals***	2/22	41	14.4	2.2	14.2
Hart Mountain	2/22	13	4.3	0.2	1.5
Little Bally Mtn. (Nev.)	2/22	19	6.3	0.6	2.3
Mt. Bidwell (Calif.)	2/24	63	23.3	3.4	---
North Star (Calif.)	2/23	43	16.0	3.9	---
Patton Meadows***	2/22	46	16.1	1.8	15.0
Quartz Mountain	2/24	11	4.6	0.3	5.6
Rogger Meadows	2/22	37	12.2	1.8	---
Sherman Valley***	2/22	26	8.6	2.4	10.5
Silver Creek	2/23	4	2.0	0.3	2.1
State Line (Calif.)	2/22	12	4.0	0.5	7.5
Strawberry	2/25	18	5.0	0.8	6.5
Strawberry***	No Report			---	6.4[b]
Summer Rim	2/28	40	13.8	2.5	14.5
Summer Rim***	2/22	40	16.8	1.6	13.2
Summer Rim Pillow*	No Report			1.0	---
Sycan Flat***	2/22	15	5.0	0.4	6.2

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DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
HARNEY BASIN WATERSHEDS					
Blue Mountain Springs	2/28	40	14.4	2.3	14.1
Blue Mtn. Springs Pillow*	2/28	---	18.2	2.6	---
Buck Pasture***	2/28	12	3.4	0.1	2.1
Buckskin Lake***	No Report			---	0.3
Call Meadows***	2/28	21	6.9	0.3	4.0
Delintment Lake	2/27	--	8.2[a]	0.6[a]	6.6[b]
Denio Creek***	2/28	3	0.8	0.1	0.5
Disaster Peak (Nev.)	2/28	42	15.9	1.8	13.4
Emigrant Butte	2/27	16	4.9	--	3.9[b]
Fish Creek	2/28	73	27.4	6.7	21.1[b]
Fish Creek Pillow*	No Report			---	---
Fish Creek***	2/28	66	23.8	5.4	19.1
Hart Mountain***	2/22	13	4.3	0.2	1.5
Idewild Camp Alternate	2/28	14	4.9	--	---
Izee Summit	2/28	---	6.9[a]	1.2	7.0
Lake Creek R.S.	3/1	---	9.0[a]	0.5	9.1
Lake Creek R.S. Pillow	2/28	30	11.0	--	---
Oregon Canyon***	2/28	18	5.0	0.4	4.8
Rock Spring	2/28	---	4.9[a]	0.6	4.9
Silvies	2/28	35	13.4	4.2	9.9[b]
Silvies***	2/28	28	9.0	4.2	7.7
Silvies Pillow*	2/28	--	18.0	9.7	--
Snow Mountain	2/27	40	14.6	3.6[a]	11.9[b]
Snow Mountain Pillow**	2/28	--	10.4	2.2	---
Snow Mountain Pillow*	No Report			---	---
Starr Ridge	2/28	15	5.0	0.7	4.9
Stinking Water	2/24	15	3.7	0.0	1.9[b]
Trout Creek***	2/28	36	11.5	2.4	6.4
"V" Lake	2/28	30	9.6	1.2	4.9
LOWER COLUMBIA WATERSHEDS					
Blazed Alder	2/27	27	8.7	3.1	---
Mt. Hood Test Site	2/27	116	44.4	10.1	52.3
Mud Ridge Pillow	2/28	38	14.2	---	---
North Fork Reservoir	3/2	11	3.7	---	---
Still Creek	2/28	24	8.4	2.8	18.3

* Manometer reading.
** Telemetry reading.
*** Aerial reading.
T Trace

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 2

MARCH 1, 1978

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average [c]
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8		No Report	---	11.5
Big Bend (Nev.)	6700	48	16.7	2/28	14.8	---	15.0
Blue Mountain Spring	5900	42	16.9	2/28	12.3	5.9	10.0
Rodeo Flat (Nev.)	6800	42	11.0	2/27	3.9	4.2	9.0
Taylor Canyon (Nev.)	6200	48	15.1	2/28	11.2	9.2	12.5
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	2/23	15.0	---	11.0
Dooley Mountain	5430	36	9.2	2/24	3.7	2.5	4.1
Emigrant Springs	3925	48	22.3	2/28	21.4	15.0	20.4
Ladd Summit	3730	48	18.9	2/24	12.3	9.3	11.2
Moss Springs	5850	36	25.8	2/27	15.0	13.5	15.0
Tollgate	5070	48	23.6	3/1	14.0	14.5	19.3
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	2/28	13.5	9.6	13.1
Emigrant Springs	3925	48	22.3	2/28	21.4	15.0	20.4
Tollgate	5070	48	23.6	3/1	14.0	14.5	19.3
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	2/28	13.5	9.6	13.1
Blue Mountain Spring	5900	42	16.9	2/28	12.3	5.9	10.0
Blue Mountain Summit	5100	36	16.8	2/28	15.0	---	11.0
Derr	5670	24	9.0	2/23	8.9	4.9	8.3
Marks Creek	4540	36	14.1	2/28	11.2	9.8	11.8
Snow Mountain	6300	48	16.7	2/27	12.9	---	13.7
Starr Ridge	5150	36	10.6	2/28	10.6	8.0	9.8
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	2/23	8.9	4.9	8.3
Marks Creek	4540	36	14.1	2/28	11.2	9.8	11.8
Snow Mountain	6300	48	16.7	2/27	12.9	---	13.7
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	2/24	9.2	6.0	8.6
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	2/27	12.7	11.2	12.5
Quartz Mountain	5230	48	15.3	2/24	9.2	6.0	8.6
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	2/28	12.3	5.9	10.0
Silvies	6900	48	16.4		No Report	---	13.4
Snow Mountain	6300	48	16.7	2/27	12.9	---	13.7
Starr Ridge	5150	36	10.6	2/28	10.6	8.0	9.8
Willow-Bald	5000	24	6.6	2/27	6.3	---	5.3

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 3

MARCH 1, 1978

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precip-itation	Last Year	Average [c]
Althouse (Josephine County)	4530	From 1/27 To 2/27	8.78"	----	
Arbuckle Mountain (Morrow County)	5400	From 2/2 To 2/28	3.75"	5.62"	
Big Red Mountain (Jackson County)	6240	From ___ To 2/27	4.00"	5.00"	
Billie Creek Divide (Jackson County)	5310	From 1/26 To 3/1	5.88"	3.00"	
Blue Mt. Springs (Grant County)	5900	From 1/30 To 2/28	3.38"	1.72"	
Brooks Meadow (Hood River County)	4520	From ___ To 2/24	26.00"	----	
Camas Creek (Lake County)	5825	From 1/27 To 2/27	2.00"	0.60"	
County Line (Umatilla County--Starkey Hdqs.)	4800	From 1/27 To 2/27	1.60"	1.00"	
Derr (Wheeler County)	5800	From 1/25 To 2/23	5.40"	----	
Eilertson Meadow (Baker County)	5400	From 2/3 To 2/28	0.84"	----	
Fish Creek (Harney County)	7600	From 10/2 To 2/28	26.90"	13.08"	
Lucky Strike (Umatilla County)	5050	From 2/2 To 2/28	4.00"	5.56"	
Marks Creek (Crook-Wheeler Cos.)	4540	From ___ To 2/28	3.50"	0.90"	
Mt. Hood Test Site (Clackamas County)	5555	From 1/31 To 2/27	8.09"	21.88"	
Quartz Mt. Summit (Lake County)	6300	From 1/27 To 2/24	1.50"	0.60"	
Saddle Mountain (Washington County)	3250	From 12/19 To 2/16	25.32"	7.50"	
Schneider Meadows (Baker County)	5400	From 1/27 To 2/27	8.04"	----	
Seine Creek (Washington County)	2150	From 12/19 To 2/16	10.88"	7.20"	
Silver Creek (Lake County)	4900	From ___ To 2/23	1.58"	0.70"	
Taylor Butte (Klamath County)	5040	From 1/30 To 2/27	2.76"	1.08"	
Taylor Green (Union County)	5800	From 9/29 To 2/27	25.20"	----	
Tipton (Baker County)	5100	From 2/2 To 2/28	2.40"	0.60"	

(a) Estimated. (b) 1958-72 adjusted average. (c) 1958-72, 15 year average (d) Corrected to natural flow. (e) Not scheduled.

Map and Index to OREGON SNOW COURSES

OWYHEE, MALHEUR WATERSHEDS (1)

Owyhee River

Number	Name	Sec	Twp	Rge	Elev
16G6	Antelope Ridge (Ida)	20	8S	1E	5900
16G9a	Battle Creek (Ida)	10	11S	1E	5700
15H1MA	Bear Creek (Nev)	31	46N	58E	7800
15H4MP	Big Bend (Nev)	30	45N	56E	6700
17H2	Buckskin, Lower (Nev)	25	45N	39E	6700
17H1	Buckskin, Upper (Nev)	11	45N	39E	7200
16G10a	Bull Basin (Ida)	29	12S	5W	5600
16H6a	Columbia Basin (Nev)	31	44N	53E	6650
18H1	Disaster Peak (Nev)	8	47N	34E	6500
16H3a	Fawn Creek (Nev)	2	45N	52E	7000
18G2PA	Fish Creek	4	33S	33E	7900
15H2	Fox Creek (Nev	33	46N	58E	6800
15H7	Fry Canyon (Nev)	31	43N	54E	6700
15H5	Gold Creek (Nev)	31	45N	56E	6600
17H4	Granite Peak (Nev)	22	44N	39E	7800
16G5a	Hyde Pasture (Ida)	31	8S	2W	5800
16H1M	Jack Creek, Lower (Nev)	18	42N	53E	6800
16H2A	Jack Creek, Upper (Nev)	9	42N	53E	7250
16H4	Jack Peak (Nev)	28	42N	53E	8420
17G3m	Jordan Valley	2	30S	46E	4390
16H5	Laurel Draw (Nev)	20	45N	53E	6700
17G6a	Lookout Butte	2	40S	47E	5650
17G4a	Louse Canyon	27	40S	44E	6440
17H3	Martin Creek (Nev)	18	44N	40E	6700
15H20a	Merritt Mountain (Nev)	10	46N	54E	7000
16H3AP	Midas (Nev)	18	39N	46E	7200
16G7MP	Mud Flat (Ida)	34	9S	2W	5500
17G5a	Oregon Canyon	8	40S	40E	6950
17H6a	Quinn Ridge (Nev)	9	47N	41E	6300
16G11a	Red Canyon (Ida)	32	11S	4W	6650
15H6MP	Rodeo Flat (Nev)	36	43N	53E	6800
15H3A	76 Creek (Nev)	6	44N	58E	7100
16F3AP*	Silver City (Ida)	6	5S	3W	6400
18G1PA	Silvies	35	32S	33E	6900
16G1P	South Mountain No.2 (Ida)	10	8S	5W	6340
15H19a	Stag Mountain (Nev)	32	41N	58E	7800
16F6a	Succor Creek (Ida)	25	3S	5W	6100
15H9MP	Taylor Canyon (Nev)	35	39N	53E	6200
16H7a	Toe Jam (Nev)	29	40N	50E	7700
15H8	Tremewan Ranch (Nev)	9	39N	55E	5700
16G4MA	Triangle (Ida)	25	7S	3W	5150
18G5a	Trout Creek	10	41S	38E	7800
18G7a	"V" Lake	31	35½S	32½E	6600
16G12a	Vaught Ranch (Ida)	10	11S	1W	5950
16G13a	War Eagle (Ida)	20	5S	3W	7700

Malheur River

Number	Name	Sec	Twp	Rge	Elev
18E16MP	Blue Mountain Springs	21	15S	35E	5900
18F6a	Buck Pasture	28	29S	35E	5300
18E21a	Bully Creek	11	17S	37E	5300
18F7a	Call Meadows	29	20S	33E	5340
17F2a	Cottonwood-Indian	3	19S	39E	4320
18E20	Eldorado Pass	20	14S	38E	4600
18E26a	Flag Prairie	32	16S	36E	4750
18E18	Lake Creek	10	16S	33½E	5200
18E22a	Logan Valley	13	16S	33½E	5100
18F1	Rock Spring	23	18S	32E	5100
18E32p*	S. Fk. Willow Cr.	2	16S	37E	5500
18F4P	Stinking Water	34	21S	34E	4800

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS (2)

Burnt River

Number	Name	Sec	Twp	Rge	Elev
18E13M	Blue Mountain Summit	6	12S	36E	5098
17E1MP	Dooley Mountain	32	11S	40E	5430
18E20	Eldorado Pass	20	14S	38E	4600
18E8	Gold Center	21	9S	36E	5340
18E9P	Tipton	34	10S	35E	5100

Powder River

Number	Name	Sec	Twp	Rge	Elev
18E1P	Anthony Lake	18	7S	37E	7125
18E5	Bourne	33	8S	37E	5800
17E1MP	Dooley Mountain	32	11S	40E	5430
18E3	Eilertson Meadows	18	8S	38E	5400
18E8	Gold Center	21	9S	36E	5340
18E6A	Goodrich Lake	4	9S	38E	6775
17D12m	Ladd Summit	5	5S	39E	3730
18E23	Little Alps	10	7S	37E	6200
18E30	Little Antone	1	7S	37E	5000
17D7P	Taylor Green	3	6S	42E	5740
17D17	West Eagle Meadows	32	5S	43E	5500
18D21	Wolf Creek	2	6S	37E	5700

Pine Creek

Number	Name	Sec	Twp	Rge	Elev
17D8	Schneider Meadows	35	6S	45E	5400

Grande Ronde River

Number	Name	Sec	Twp	Rge	Elev
17D1	Aneroid Lake No. 1	16	4S	45E	7480
17D2P	Aneroid Lake No. 2	16	4S	45E	7300
18E1P	Anthony Lake	18	7S	37E	7125
17D10a	Bald Mountain	14 & 15	4S	41E	6700
18D9	Beaver Reservoir	8	5S	37E	5150
18D8P	County Line	28	4S	34E	4800
18D6P	Lucky Strike	28	3S	32E	5050
18D5	Meacham	24	1S	35E	4300
17D13a	Mirror Lake	34	4S	44E	8200
17D6M	Moss Spring	28	3S	41E	5850
18D7	Schoolmarm	28	4S	34E	4775
17D11a	Standley	21	2S	42E	7400
17D7P	Taylor Green	3	6S	42E	5740
18D3	Tollgate	32	4N	38E	5070
17D16a	TV Ridge No. 2	12	2S	43E	7000

Imnaha River

Number	Name	Sec	Twp	Rge	Elev
17D1	Aneroid Lake No. 1	16	4S	45E	7480
17D2P	Aneroid Lake No. 2	16	4S	45E	7300
17D14a	Big Sheep	33	4S	46E	6200

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS (3)

Rock Creek

Number	Name	Sec	Twp	Rge	Elev
19D3	Madison Butte	30	5S	27E	5250

Umatilla River

Number	Name	Sec	Twp	Rge	Elev
19D2P	Arbuckle Mountain	33	4S	29E	5400
18D20	Bowman Springs	29	2S	35E	4580
20E4	Butte Creek Summit	5	8S	22E	3930
18D4M	Emigrant Springs	29	1N	35E	3925
18D19	High Ridge	31	3N	38E	4150
18D6P	Lucky Strike	28	3S	32E	5050
18D5	Meacham	24	1S	35E	4300
18D3	Tollgate	32	4N	38E	5070

Walla Walla River

Number	Name	Sec	Twp	Rge	Elev
18D16	Blue Mountain Camp	35	4N	37E	4300
18D3	Tollgate	32	4N	38E	5070

Willow Creek

Number	Name	Sec	Twp	Rge	Elev
19D2P	Arbuckle Mountain	33	4S	29E	5400
18E1P	Anthony Lake	18	7S	37E	7125

LEGEND

1902	SNOW COURSE ONLY
1902M	SNOW COURSE AND SOIL MOISTURE
1902MA	SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
1902A	SNOW COURSE AND AERIAL MARKER
1902m	SOIL MOISTURE ONLY
1902a	AERIAL MARKER ONLY
1902P	SNOW COURSE AND PRECIPITATION GAGE
1902p	PRECIPITATION GAGE ONLY
1902*	RADIO TELEMETRY

UPPER JOHN DAY WATERSHEDS (4)

Upper John Day River

Number	Name	Sec	Twp	Rge	Elev
19D2P	Arbuckle Mountain	33	4S	29E	5400
18E16MP	Blue Mountain Springs	21	15S	35E	5900
18E13M	Blue Mountain Summit	6	12S	36E	5098
20E4	Butte Creek Summit	5	8S	22E	3930
19E3MP	Derr	14	13S	23E	5670
18E8	Gold Center	21	9S	36E	5340
18E24a	Indian Cr. Butte	5	15S	33E	6550
19E9P	Izee Summit	28	16S	29E	5293
18D6P	Lucky Strike	28	3S	32E	5050
20E1MP	Marks Creek	25	12S	19E	4540
20E2	Ochoco Meadows	21	13S	20E	5200
18E7a	Olive Lake	14	9S	34E	6000
18D7	Schoolmarm	28	4S	34E	4775
19F1*	Snow Mountain	1	19S	26E	6220
19E7M	Starr Ridge	20	15S	31E	5150
18E9P	Tipton	34	10S	35½E	5100

UPPER DESCHUTES, CROOKED WATERSHEDS (5)

Upper Deschutes River

Number	Name	Sec	Twp	Rge	Elev
21E22	Bald Peter	29	10S	9E	5400
21F8	Caldwell Ranch	30	21S	8E	4400
22F3	Cascade Summit	7	23S	6E	4880
21F11	Chemult	21	27S	8E	4760
21E6	Hogg Pass	24	13S	7½E	4755
21F4	Hungry Flat	29	18S	11E	4400
21F6*	Irish-Taylor	25	20S	6E	5500
21E25a	Lionshead	1	10S	8E	5400
21F10	New Crescent Lake	11	24S	6E	4800
21E16	New Dutchman Flat #2	21	18S	9E	6400
21E23	Racing Creek	15	10S	9E	4800
22F14*	Summit Lake	33	24S	5½E	5600
21F3	Tangent	28	18S	10E	5400
21E15	Three Creeks Butte	27	16S	9E	5200
21E13*	Three Creeks Meadows	34	16S	9E	5650
22F2P	Waldo Lake	15	21S	6E	5600
21E24a	Whitewater Meadow	17	10S	9E	4160

Crooked River

Number	Name	Sec	Twp	Rge	Elev
19E3MP	Derr	14	13S	23E	5670
20E1MP	Marks Creek	25	12S	19E	4540
20E2	Ochoco Meadows	21	13S	20E	5200
19F1*	Snow Mountain	1	19S	26E	6220
19E4	Tamarack	8	15S	25E	4800

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS (6)

Hood River

Number	Name	Sec	Twp	Rge	Elev
21D6P	Brooks Meadows	2	2S	10E	4300
21D1	Greenpoint Reservoir	27	2N	9E	3200
21D20	Knebal Springs	31	1S	11E	3850
21D8*	Mt. Hood Test Site	7	3S	9E	5400
21D4	Red Hill	20	1S	9E	4400
21D9	Still Creek	25	3S	8½E	3670
21D28	Switchback	28	1S	9E	3255
21D7P	Tilly Jane	15	2S	9E	6000
21D21	Ulrich Ranch Junction	28	1S	11E	3350
21D30	Umbrella Falls	3	3S	9E	5400

Mile Creeks - Mosier Creek

Number	Name	Sec	Twp	Rge	Elev
21D6P	Brooks Meadows	2	2S	10E	4300
21D20	Knebal Springs	31	1S	11E	3850
21D21	Ulrich Ranch Junction	28	1S	11E	3350

Lower Deschutes River

Number	Name	Sec	Twp	Rge	Elev
21D12	Clear Lake	29	4S	9E	3500
21D22	Clear Lake Experimental	29	4S	9E	3500
21E6	Hogg Pass	24	13S	7½E	4755

LOWER COLUMBIA WATERSHEDS (7)

Bull Run River

Number	Name	Sec	Twp	Rge	Elev
21D33*	Blazed Alder	5	2S	8E	3650

Sandy River

Number	Name	Sec	Twp	Rge	Elev
21D35	Mud Ridge	1	4S	8½E	3800
21D34	North Fork Reservoir	24	1N	6E	3120
21D8*	Mt. Hood Test Site	7	3S	9E	5400
21D9	Still Creek	25	3S	8½E	3670

WILLAMETTE WATERSHEDS (8)

Clackamas River

Number	Name	Sec	Twp	Rge	Elev
21D13	Clackamas Lake	35	5S	8½E	3400
21D12	Clear Lake	29	4S	9E	3500
21D16	Lake Harriet	4	6S	7E	2045
21D14P*	Peavine Ridge	14 & 15	6S	7E	3500
21D17	Timothy Lake	26	5S	8E	3295

Santiam River

Number	Name	Sec	Twp	Rge	Elev
22E1	Detroit (City)	1	10S	5E	1610
22E2	Detroit Dam	7	10S	5E	1580
21E6	Hogg Pass	24	13S	7½E	4755
22E7	Jump-Off-Joe	1	14S	5E	3400
21E4	Marion Forks	29	11S	7E	2600
22E3	Mill City	29	9S	3E	826
21E5	Santiam Junction	14	13S	7E	3750
21E3	Whitewater Bridge	20	10S	7E	2175

McKenzie River

Number	Name	Sec	Twp	Rge	Elev
21E8	Dead Horse Grade	13	16S	7E	3700
22E4	Lost Creek Ranch	19	16S	7E	1956
21E7	McKenzie	34	15S	7½E	4800
22E5	McKenzie Bridge	13	16S	5E	1372
22E6	Vida	28	16S	2E	800
21E9	White Branch Slide	15	16S	7E	2700

Middle Fork Willamette River

Number	Name	Sec	Twp	Rge	Elev
22F3	Cascade Summit	7	23S	6E	4880
22F8	Lookout Point Dam	13	19S	1W	750
22F6	McCredie Springs	36	21S	4E	2120
22F7	Oakridge	16	21S	3E	1310
22F5	Railroad Overpass	21	22S	5E	2750
22F4	Salt Creek Falls	32	22S	5½E	4000
22F14*	Summit Lake	33	24S	5½E	5600
22F2P	Waldo Lake	15	24S	6E	5600

Coast Fork Willamette River

Number	Name	Sec	Twp	Rge	Elev
22F9	Champion	12	23S	1E	4500
22F10	Golden Curry Creek	1	23S	1E	3136
22F13	Layng Creek R.S.	31	21S	1E	1200
22F12	Lund Park	22	22S	1E	1740
22F11	Weaver Creek	35	22S	1E	2440

Mary's River

Number	Name	Sec	Twp	Rge	Elev
23E1	Mary's Peak	21	12S	7W	3620

Luckiamute River

Number	Name	Sec	Twp	Rge	Elev
23E2	Laurel Mountain	6	8S	7W	3000
23E3	Valsetz Summit	3	9S	7W	2600

Tualatin River

Number	Name	Sec	Twp	Rge	Elev
23D2*	Seine Creek	34	1N	5W	2000
23D1*	Saddle Mountain	25	1N	6W	3250

ROGUE, UMPQUA WATERSHEDS (9)

Rogue River

Number	Name	Sec	Twp	Rge	Elev
23G4P	Althouse	17	41S	7W	4530
22G6	Annie Spring	19	31S	6E	6018
22G28	Beaver Dam Creek	1	38S	4E	5100
22G21P	Big Red Mountain	31	40S	1W	6250
22G13P	Billie Creek Divide	30	36S	5E	5300
22G30	Caliban	16	40S	1E	6500
22G27	Deadwood Junction	8	38S	4E	4600
22F19	Diamond-Crater Summit	3	29S	6E	5800
22G14P	Fish Lake	3	37S	4E	4665
22G12	Fourmile Lake	9	36S	5E	6000
23G3	Grayback Peak	9	40S	5W	6000
22G26	Howard Prairie	32	38S	4E	4500
22G16	Hyatt Prairie Reservoir	15	39S	3E	4900
22G22	Little Red Mountain	25	40S	2W	6500
22G31	Mt. Ashland Switchback	15	40S	1E	6400
23G14	Mule Creek	8	32S	9W	3680
23G5	Page Mountain	5	41S	7W	4045
22G5	Park Headquarters	8	31S	6E	6550
22G11	Seven Lakes No. 2	26	33S	5E	6200
22G2	Silver Burn	30	30S	4E	3720
22G20	Siskiyou Summit	17	40S	2E	4630
22G32	Ski Bowl Road	22	40S	1E	6000
22G9	South Fork Canal	12	33S	3E	3500

Umpqua River

Number	Name	Sec	Twp	Rge	Elev
22F9	Champion	12	23S	1E	4500
22F18P	Diamond Lake	29	27S	6E	5315
23G8	King Mountain No. 1	5	33S	4W	4500
23G9	King Mountain No. 2	4	33S	4W	4000
23G10	King Mountain No. 3	33	32S	4W	3648
23G11	King Mountain No. 4	33	32S	4W	3049
23G12	King Mountain No. 5	29 & 28	32S	4W	2380
23G13	King Mountain No. 6	20	32S	4W	1820
22F16	North Umpqua	19	26S	6E	4215
22F23	Red Butte No. 1	36	27S	2W	4560
22F24	Red Butte No. 2	30	27S	1W	4000
22F25	Red Butte No. 3	30	27S	1W	3500
22F26	Red Butte No. 4	30	27S	1W	3000
22F27	Red Butte No. 5	20	27S	1W	2500
22F28	Red Butte No. 6	17	27S	1W	2000
22F17	Trap Creek	1	27S	4E	3800

KLAMATH WATERSHEDS (10)

Klamath River

Number	Name	Sec	Twp	Rge	Elev
22G6	Annie Spring	19	31S	6E	6018
22G13P	Billie Creek Divide	30	36S	5E	5300
21F11	Chemult	21	27S	8E	4760
22G24*	Cold Springs Camp	12	35S	5E	6100
20G12a	Crazyman Flat	9	34S	15E	6100
20H2a	Crowder Flat (Cal)	30	47N	11E	5200
22F19	Diamond-Crater Summit	3	29S	6E	5800
21F18	Diamond Lake Jct. (97)	1	29S	7E	4600
21G6a	Dog Hollow	1	40S	14E	4900
20G14a	Finley Corrals	11	36S	16E	6000
22G12	Fourmile Lake	9	36S	5E	6000
21G4P	Gerber	12	39S	13E	4850
22G26	Howard Prairie	32	38S	4E	4500
22G16	Hyatt Prairie Reservoir	15	39S	3E	4900
22G15	Lake of the Woods	11	37S	5E	4960
22G5	Park Headquarters	8	31S	6E	6550
20G6MP	Quartz Mountain	2	38S	16E	5320
22G11	Seven Lakes No. 2	26	33S	5E	6200
22G33	Seven Mile	20	33S	6E	5725
20H1a	State Line (Cal)	21	48N	11E	5750
20G9AP	Strawberry	4	40S	16E	5760
20G2AP	Summer Rim	23	33S	16E	7100
20G13a	Sycan Flat	25	31S	14E	5500
21G3P	Taylor Butte	21	33S	11E	5100

Pacific Power and Light Company's Snow Stations

Number	Name	Sec	Twp	Rge	Elev
3	Chiloquin (PP&L)	34	34S	7E	4187
4	Crystal (PP&L)	26	34S	6E	4200
5	Fort Klamath (PP&L)	22	33S	7½E	4150
8	Harriman Lodge (PP&L)	3	36S	6E	4200
6	Kirk (PP&L)	1	33S	7E	4533

LAKE COUNTY, GOOSE LAKE WATERSHEDS (11)

Goose Lake

Number	Name	Sec	Twp	Rge	Elev
20G15a	Bear Flat Meadow	27	36S	19E	5900
20G8MP	Camas Creek	5	39S	21E	5720
20G11A	Cox Flat	16	37S	18E	5750
20H2a	Crowder Flat (Cal)	30	47N	11E	5200
20H3a	Dismal Swamp (Cal)	31	48N	16E	7200
20G17a	Patton Meadow	28	38S	18E	6800
20G6MP	Quartz Mountain	2	38S	16E	5320
20G19a	Rogger Meadow	21	39S	21E	6500
20H1a	State Line (Cal)	21	48N	11E	5750
20G9AP	Strawberry	4	40S	16E	5760

Abert Lake

Number	Name	Sec	Twp	Rge	Elev
20G15a	Bear Flat Meadow	27	36S	19E	5900
20G18ap	Colvin Creek	12	36S	21E	6550
20G11A	Cox Flat	16	37S	18E	5750
20G14a	Finley Corrals	11	36S	16E	6000
20G6MP	Quartz Mountain	2	38S	16E	5320
20G10a	Sherman Valley	15	37S	21E	6600

Summer Lake

Number	Name	Sec	Twp	Rge	Elev
20G2AP	Summer Rim	23	33S	16E	7100

Silver Lake

Number	Name	Sec	Twp	Rge	Elev
21F2P	Silver Creek	25 & 26	29S	13E	4900
20G13a	Sycan Flat	25	31S	14E	5500

Warner Lake

Number	Name	Sec	Twp	Rge	Elev
20G8MP	Camas Creek	5	39S	21E	5720
20H3a	Dismal Swamp (Cal)	31	48N	16E	7200
19G1a	Hart Mountain	1	36S	25E	6350
20G10a	Sherman Valley	15	37S	21E	6600

Guano Lake

Number	Name	Sec	Twp	Rge	Elev
19H1	Bald Mountain (Nev)	17	45N	21E	6720
19G1a	Hart Mountain	1	36S	25E	6350
19H4a	Little Bally Mt. (Nev)	8	45N	19E	6600

HARNEY BASIN WATERSHED (12)

Silvies River - Silver Creek

Number	Name	Sec	Twp	Rge	Elev
18F7a	Call Meadows	29	20S	33E	5340
19F2	Delintment Lake	28	19S	26E	5600
19F3	Emigrant Butte	14	21S	27E	5000
18F3P	Idlewild Camp	27	20S	31E	5200
19E9P	Izee Summit	28	16S	29E	5293
18F1	Rock Spring	23	18S	32E	5100
19F1*	Snow Mountain	1	19S	26E	6220
19E7M	Starr Ridge	20	15S	31E	5150
18F4P	Stinking Water	34	21S	34E	4800

Donner Und Blitzen River

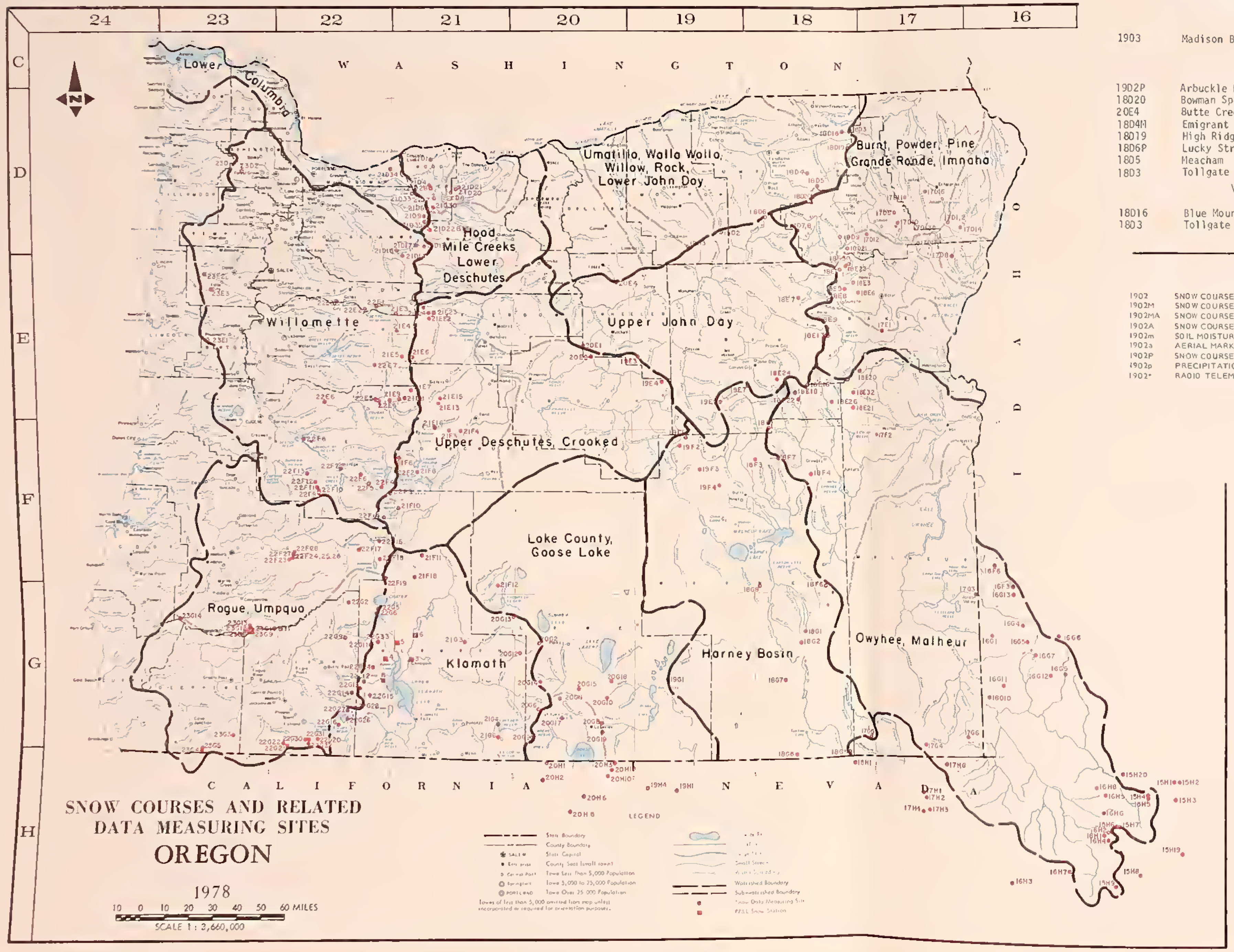
Number	Name	Sec	Twp	Rge	Elev
18F6a	Buck Pasture	28	29S	35E	5300
18G2PA	Fish Creek	4	33S	33E	7900
19G1a	Hart Mountain	1	36S	25E	6350
18G1PA	Silvies	35	32S	33E	6900
18G7a	"V" Lake	31	35 S	32½E	6600

Trout and Whitehorse Creeks

Number	Name	Sec	Twp	Rge	Elev
18G6a	Oenio Creek	14	41S	34E	6000
18H1	Disaster Peak (Nev)	8	47N	34E	6500
17G5a	Oregon Canyon	8	40S	40E	6950
18G5a	Trout Creek	10	41S	38E	7800

Harney Lake

Number	Name	Sec	Twp	Rge	Elev
18G8a	Buckskin Lake	25	29S	30E	5200



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The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE
- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon Department Of Water Resources
- Soil and Water Conservation Districts of Oregon

COUNTY
- Douglas County Water Resources Survey

FEDERAL
- Department of Agriculture
  - Cooperative Extension Service
  - Forest Service
  - Soil Conservation Service
- Department of Commerce
  - NOAA, National Weather Service
- Department of the Interior
  - Bonneville Power Administration
  - Bureau of Land Management
  - Bureau of Revlamation
  - Fish and Wildlife Service
  - Geological Survey
- Department of National Defense
  - Corps of Army Engineers

PUBLIC UTILITIES
- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

MUNICIPALITIES
- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

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- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale - Oregon Irrigation District
- Warmsprings Irrigation District

PRIVATE ORGANIZATIONS
- The Crag Rats, Hood River, Oregon

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